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HESTRICTED Unclassific CENTRAL INTELLIGENCE AGENCY STAT REPORT INFORMATION FROM FOREIGN DOCUMENTS OR RADIO BROADCASTS. CD COUNTRY USSR DATE OF INFORMATION 1946 **SUBJECT** Scientific - Chemistry, fuel, aviation HOW DATE DIST. 19 Jan 1952 **PUBLISHED** Pamphlet WHERE **PUBLISHED** Moscow NO. OF PAGES DATE **PUBLISHED** 1946 SUPPLEMENT TO LANGUAGE Russian REPORT NO. THIS IS UNEVALUATED INFORMATION SOURCE GOST 1012-46 **STAT** 

## USSR STANDARD FOR AVIATION GASOLINE GOST 1012-46

(Petroleum Industry BZI)

- 1. The present standard applies to straight-run avistion gasolines both in their pure form, and with admixtures of reformed aviation gasoline stabilized by an inhibitor, of high-octane components, and of ethyl fluid.
  - 2. Aviation gasolines must meet the following requirements:

Properties According to Type

Pr	ysi ope	co rt	chemical ies	B-95/130 Baku	B-95/	<u>'115 B</u>	1-92	B-89	<u>B-70</u>	Test <u>Method</u>
1.	R 9	th:	tent of yl fluid , (GOST -44), not	4ml/kg	4ml/	kg	4ml/kg	4ml/kg	o ·	GOST 63-40
2.	ъ		ine num- , not less	8						
	a.		Gasoline without ethyl fluid				·		70	
	ъ.		With not more than 4ml ethyl fluid per kg of gas	<u>.</u>		٠				GOST 514-46
			oline	95	95		92	89	89	D
						- 1	l -	•	)	07.47
				LASSIFICAT	ION "					STAT
TATE		X		X NSRB		DIST	RIBUTION			
RMY		X	AIR	X FBI				$\neg$		<del></del>

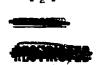
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				-	n e			
		ochemical ties	B-95/130 Baku	B-95/115	B-92	<u>B-89</u>	<u>B-70</u>	Test Method
3.	gain 3-0 rio tui lei	ast of soline, actions to the mix- re, not so than actional aposition		115				GOST 3338∸¥6
	a.	Distilla tion starts not lowe: than		40°c	₩0 <sub>0</sub> C	40 <sup>°</sup> c	40°C	
	ъ.	10% dis- tills of: at not higher than	82°C	82°c	88°c	88°c	88°c	
	c.	40% dis- tills off at not lower than	e 75°c	75°c	75°C	75 <sup>°</sup> c	75 <sup>0</sup> 0	}GOST 2177-43
	d.	50% dis- tills off at not higher than	105°c	105°C	105 <sup>0</sup> c	105 <sup>0</sup> C	105 <sup>0</sup> C	
	e.	90% dis- tills off at not higher than	145°C	145°C	145° <b>c</b>	145 <sup>0</sup> 0	145°c	
	f.	97.3% distills off at not higher than		180°c	180°c	180°c	180°c	
	g.	Total residue and loss, not more than	2.5%	2 <b>.5%</b>	2.5%	2.5%	2.5%	GOST 2177-43
	h.	not more	1.5%	1.5%	1.5%	1.5%	1.5%	,

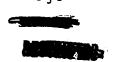






	ysicochemical coperties	B-95/130 Baku	B-95/115	<u>B-92</u>	B-89	<u>B-70</u>	Test Method
5.	Reid vapor pressure (mmHg), not more than	330	360	360	360	360	GOST 1756-42
6.	Acidity (mgKOH/100 ml), not more than	1.2	1.2	1.2	1.2	.2	OCT NKTP 7872/ 2292 M.I. 25v-36
7.	Freezing point, not higher than	-60°C	-60°c	-60°c	-60°c	-60°c	OST 7272-39, M.I. 7 ya
8.	Iodine No (gI/100g), not more than	10	10	15	15	15	GOST 2070-43
9.	Gum content (mg/100 ml) not more than	2	2	2	2	2	GOST 1567-46
10.	8 content not more than	0.05%	0.05%	0.05%	0.05%	0.05%	GOST 1771-42
11.	Test on copper plate		Pas	ses test			OST WKTP 7872/ 2292, M.I. 23z-37
12.	Content of water-soluble acids and alkalies			None			ost nktp 7872/
							2292, M.I. 25e-37
13.	Content of mechanical impurities, including water			None		The gasoline, poured into a glass cylin- der 40-55 mm in diameter, must not con- tain in sus-	
	\$ 1						pension or precipitated on the bottom of the cylinder any impurities, including wa- ter





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 Physicochemical
 B-95/130
 Test

 Properties
 Baku
 B-95/115
 B-92
 B-89
 B-70
 Method

24. Transparency Clear

15. Color

In nonethylated form, colorless

Colorless Color of gasoline is determined by in-In spection. disputable cases, color of gasoline is determined by means of a Saybolt chromometer; the gasoline is considered colorless if the indicator on the Saybolt apparatus is not lower (darker) than 18 units

- NOTE: i. It is permissible to add to gasoline not more than 20% benzene, toluene, and pyrobenzol.
  - ii. In case of prolonged storage (longer than 6 months), aviation gasoline is stored without admixture of reformed aviation gasoline.
  - 111. For B-89 and B-70 gasolines containing reformed aviation gasoline, iodine numbers over 25 are not acceptable.
  - iv. Determination of iodine number and gum content is carried out before ethylation of the gasoline.
  - v. In the case of nonethylated aviation B-95/130, B-95/115, and B-92 gasolines the rating nonethylated is indicated and, in parentheses, the previous grade, namely:

B-95/130, Baku, nonethylated (B-786)

B-95/115, nonethylated (B-78)

B-92, nonethylated (B-74)

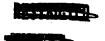
- vi. For B-89 and B-70 gasolines manufactured from Fur East petroleums, the temperature at which 50 percent distills off has been fixed at not higher than 115°C.
- vii. For B-70 gasoline manufactured from Krasnods petroleum, an octane number of not less than 69 has been established.
- The packing, labeling, storage, transport, and delivery of aviation gasoline are conducted in accordance with GOST 1510-45.

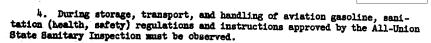




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5. Selection of samples of aviation gasolines is carried out according to GOST 2517-44. Up to 2 liters of each kind of gasoline are kept for a control sample.

Proposed by ATK VVB USSR and Ministry of Aviation Industry USSR.

Approve1 by All-Union Committee on Standards 23 November 1946.

Effective 1 January 1947.



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